19 171 Married					2) Ope Wel	1110. KEM #4]	12
PRILLING CONT	IRAC'IOR				3) AI'I	71 5 11 1 11/1 m a	O35 - 1882
Clint_flu				INTEOUNIST YO			County Permit
	Francis trans unit garage de re			FOF MINES, OIL A			
		*****	Oir Vill	AS WILL PERMIT	VILLICATION		
A) WELLTYPE	: A 0il	Gas .	X		,		
S) LOCATION:						K Road	/ Shallow _X/)
,	District:	Washingt	on	_ County:li	ickson	Quadrangle:	Ripley
O. WELL OPER Address	P. 0.	Box 8	reion_and	 Tanning Con	 DESIGNATED Address 	AGENTR	A. Pryce
	Rayens	Box 8 Swood, W	/26164	1			
7) OIL & GAS ROYALTY O	WHER Otho			. 12) COAL OPERA	TOR None	
Address		Brook Paland, OH			Address		
Acreage	47.46			or management promise			ATION ON RECORD:
8) SURFACEO	WHER Same	enteres de l'Originatique de la destactación de la	The second secon		NameNO	n <u>e</u>	
	The demonstration of the second of the secon			the second secon	*inni ças		
Acreage 9) FIELD SALE	(IF MADE) TO			Control of the Contro	Name		
Address							
10) OIL & GAS 1	NSPECTOR TO	BE NOTIFIE	.D	14	Name No	WITH DECLARATI	ON ON RECORD:
Name Hom	er Dougher	ty			. Address ,		
Address	Linden Ru	., DOX 3	A, Loone	yville, WV			RIECERVE
15) PROPOSED				Redrill.			
				Perforate no			JUN 24 1983
	L TARGET FOR	MATION, D	evonian	Brown Shale			OIL AND GAS DIVIS
	uste water strata e			fect	alt,	feet.	MADE
	nate coal seam der				being mined in the		' / 'No/
20) EASING AN	orq dairut d	GRAM					
EASING OB	Size Gra	SPECIFICATION Weight per fr.	New Used	FOOTAGE For drilling	Left in well 1.	CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS
Conductor Fresh water	10 3/4"			Was after	/ Muse	150	Kinds by Ruk 10 a
Coal				400 250	400750		s A to surface Sizes
Intermediate Production	4 1/2"		X	2261 5073	2261 5073	65 sks 50/50 100 sks clas	s A
Tubing	4 1/1		X=		30/3	- 225-şks- 50 / 5	C pozmix
Liners					The second secon	The state of the state of	Perforations: Top Bottom
							Top Bottom
21) EXTRACTION	N RIGHTS			L			
Check and pro	wide one of the f						
				outract or contracts by (See reverse side for		right to extract oil or	gas.
22) ROYALTY PE		r market the o	il or one based	Lunan a lease or other	continuing contrac	ot or contracts providing	g for flat well royalty or any
similar provisio	on for compensa	tion to the ow					e of oil or gas so extracted,
If the answer above		additional is pe	ceded. If the	answer is Yes, you m	ay use Affidavit Fo	orm IV-60.	
23) Required Copi			aced plat and	radamation when how	a han maded by	and the set of the set of the	ered by hand to the above
panied coal oper	edor, coal owner	(s), and coal l					tion to the Department of
	aton, West Virgin		,		Signed:	A.P.	
My Compilssion						ral Manager	-
				OFFICE USE OF	VI.Y		
And the state of t	47-035-	1882	1.	MANG PUSS	:1.1,	August 25, 198	33
Petinit number			interest mane,				
Quirements subject	to the conditions	contained her	cin and on th	e reverso hereofypul	leaden most be alv	en to then the accordance	e with the pertinent legal re- and Cox legge EASt notify the
mance distinct on at	and Kay anythicken	34 Hours octor	ic actual perd	mich work fine comm	nencea.)		1
Permit expires	ugust 25,		50 ************************************	The same of the sa	ling is commenced	prior to that date and p	proxecuted with due diligence,
thound:	Agent:	Fint	Coxun	9611179		mostrator, Office of	Oil and Gas
(C	XP	FU	100	104011	, ,	Mental Mile of	

IV-9 (Rev 8-81)



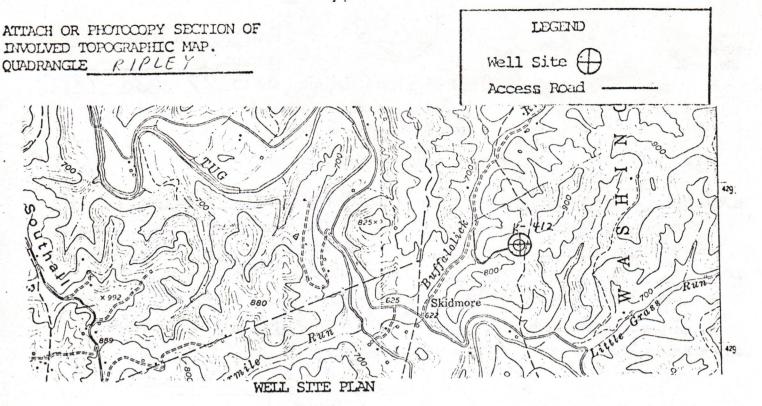
DATE	June	16,	1983	
WELL	W. KI	M #	412	

State of Mest Mirginia API NO. 47-035-1882

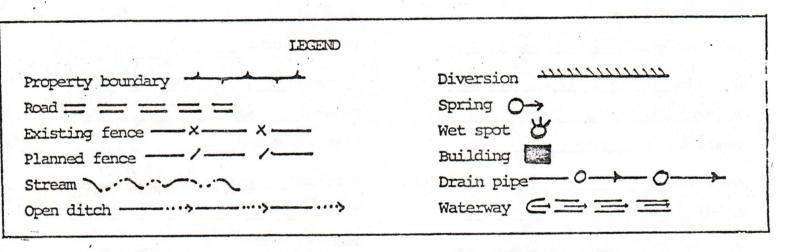
Department of Mines Bil and Cas Bivision

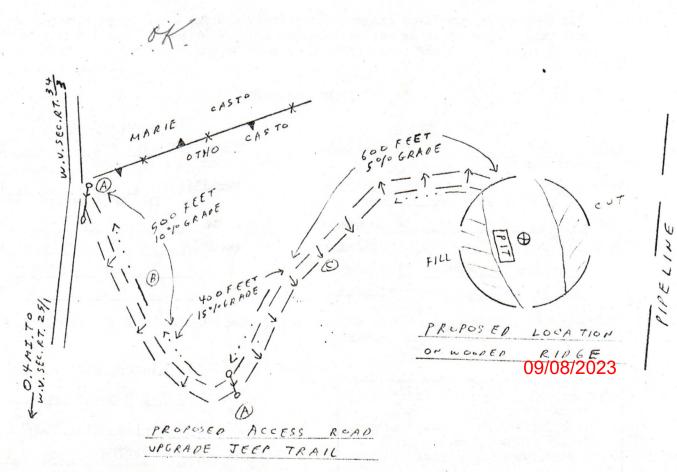
RICITON AND RECLAMATION PLAN

Page Ref. Manual 2:7 Page Ref. Manual 2:7 Structure Drainage Ditch (B) Structure Drainage Ditch (B) Structure Earthen Page Ref. Manual Jun 24 1983 Page Ref. Manual Jun 24 1983 Page Ref. Manual Jun 24 1983 Structure Eross Drains (C) Structure Define Mines Spacing 80', 60', 135' Page Ref. Manual 2:4 Page Ref. Manual Page Ref. Manual All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins. REVERETATION Treatment Area I Lime 4 Tons/acre or correct to pH Fertilizer 14-14-14 600 lbs/acre (10-20-20 or equivalent) Mulch Hay 2 Tons/acre Seed*81% Orchard Grass/15% Ry&bs/acre Kentucky 31 Fescue 16 lbs/acre lbs/acre Red Clover 8 lbs/acre lbs/acre *Inoculate all legumcs such as vetch, trefoil and clovers with the proper bacterium.	CONTROLLO				
Telephone 273-5371 LENDONNER Otho Casto Revegetation to be carried out by Kajser Exploration and Mining Company (Agent This plan has been reviewed by SCD. All corrections and additions become a part of this plan: ACCESS RAD LOCATION Structure Road Culvert (A) Structure None required (SCD Agent) ACCESS RAD LOCATION Structure Drainage Ditch (B) Structure None required (Company Earthen Page Ref. Manual 2:7 Page Ref. Manual Structure Cross Drains (C) Structure Dealth Material JUN 24 1983 Structure Cross Drains (C) Structure DEFIT. OF MINES Spacing 80', 60', 135' Material JUN 24 1983 Page Ref. Manual 2:4 Page Ref. Manual Commercial timber to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins. REVENERATION Treatment Area I Line Same as Area I Tens/acre or correct to pH Grown or correct to correct to correct to pH Grown or correct to correct to correct to pH Grown or correct to correct to correct to correct t					
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This plan has been reviewed by Gates SCD. All corrections and additions become a part of this plan: (Date) (PAS) (SCD Ageht) ACCESS ROAD LOCATION Structure Road Culvert (A) Structure None required (C) (SCD Ageht) Spacing 12" diameter Material Page Ref. Manual 2:7 Page Ref. Manual 2:7 Page Ref. Manual 2:12 Page Ref. Manual Page Ref. Manual 2:14 Page Ref. Manual Page Ref. Manual 2:4 Page Ref. Manual 2:4 Page Ref. Manual Page Ref. Manual 2:4 Page Ref. Manual Page Ref. M		_ /		A fire and the second of the s	•
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Page Ref. Manual 2:7 Page Ref. Manual 2:17 Page Ref. Manual 2:18 Page Ref. Manual 2:19 Page Ref. Manual 3:19	Structure Road Culvert	(A)	Structure	None required	(1)
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(10-20-20 or equivalent) Mulch Hay 2 Tons/acre Mulch Seed*81% Orchard Grass/15% Rydbs/acre Kentucky 31 Fescue 16 lbs/acre Red Clover 8 lbs/acre *Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount. FLAN PREPARED BY Vincent Wood 09/08/2023 **SOTES: Please respect lawformere acoperation to protect new seeding for one growing season. Attach separate sheeps as Ripley, WV 25271		е			_Tons/acre
Seed* 81% Orchard Grass/15% Ryths/acre Seed* Ibs/acre Ibs/acre Ib	Fertilizer 14-14-14 600 lbs/acre (10-20-20 or equivalent)		Fertilizer		
Kentucky 31 Fescue 16lbs/acre lbs/acre lbs/acre Red Clover 8lbs/acre lbs/acre *Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount. FIAN PREPARED BY Vincent Wood 09/08/2023 **CTES: Flease request lawsement acress as Ripley. WV 25271 Attach separate sheeps as	Mulch Hay 2 Tons/acm	е	Mulch		Tons/acre
Red Clover 8 lbs/acre *Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount. FIAN PREPARED BY Vincent Wood 09/08/2023 ### VINCES: Please resulest lawformere' appearation to present new seedling for one growing season. Attach separate sheeps as	Seed*81% Orchard Grass/15% Rydbs/acre		Seed*		lbs/acre
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount. FIAN PREPARED BY Vincent Wood 09/08/2023 APDRESS 116 Pfost Avenue seedling for one growing season. Attach separate sheeps as	Kentucky 31 Fescue 161bs/acre				_lbs/acre
Inoculate with 3X recommended amount. FIAN PREPARED BY Vincent Wood 09/08/2023 ### PREPARED BY Vincent Wood 09/08/2023 ##################################	Red Clover 81bs/acre		*****		_lbs/acre
SCIES: Flease respect landowners' APDRESS 116 Pfost Avenue cooperation to protect new seedling for one growing season. Attach separate sheets as	*Inoculate all legumes such as vetch Inoculate with 3X recommended cmount.	, trefoil	and clover	s with the proper bo	acterium.
seedling for one growing season. Attach separate sheets as Ripley, WV 25271		FILLY PRE	PARED EY_	Vincent Wood 09/	08/2023
seedling for one growing season. Attach separate sheets as			address	116 Pfost Avenue	
Attach separate shears as	seedling for one growing season.			Ripley, WV 25271	
		FF			



ketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.





The second second

71	Data.	1	21	19 00	1
1)	Date:	June	21	,19 83	5
-	-			_	_

2) Operator's

Well No. KEM #412

3) API Well No. 47
State County Permi

09/08/2023

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

	MOTICE OF PRINTE	*++	<u> </u>	TOR A WILLIAM	1101	.41 1144	
) SUI	RFACE OWNER(S) OF RECORD TO BE SEE	RVE	D	5(i)			RATOR None
151	Name Otho Casto				Ac	dress_	
(1)		-	-				
	Address 11800 Brook Pk Rd			5(ii)	CC	DAL OWNE	R(S) WITH DECLARATION ON RECORD
1221	Cleveland, OH 44130				Na	ame	None
(11)	Name Orville & Naomi Casto		_			Address	
	Address 2104 Nash Street		-				
	Parkersburg, WV 26101		-		Na	ame	
111)	Name.		_	resu 177 =		Address	
	Address		_				
			-	5(iii)	CC	DAT. LESS	SEE WITH DECLARATION ON RECORD:
				3 (111)	_	ame	None None
•					***	Address	None
				BT. A	B 10	Algeria.	
•				No. 1	4	1829	
	TO THE PERSON(S) NAMED ABOVE:	EC	E	PT FOR CERTI	FIE	D MAIL	following documents:
	(1) The Application for a			INSURANCE COVERAGE			7-4 if the well is
	to be plugged, which s		NU	NOT FOR INTERNATION			; or other work,
	and describes the well cementing program;			(See Reverse)		roposed casing and
	(2) The plat (surveyor's m	SEN					and
	(3) The Construction and R plug a well), which se	0	rv	ille Casto			ll work is only to ntrol and for
	reclamation for the si				+		netor and rot
	THE REASON YOU RECEIVED TH	P.0	., \$1	4 Nash Stree	<u> </u>		DING THE APPLICATION
	WHICH ARE SUMMARIZED IN THE "IN			kersburg, WV		26101	OF THE APPLICATION
	(FORM IV-2(B) OR FORM 4, DESIGN ACTION AT ALL.	POS	STAC	GE		\$ 37	D TO TAKE ANY
	Take notice that under Cha	S	CE	RTIFIED FEE		75 c	rsigned well op-
	erator proposes to file or has	FEES		SPECIAL DELIVERY	-	¢	panying documents
	for a Well Work Permit with the Department of Mines, with respe	OR		RESTRICTED DELIVERY	-	¢	, West Virginia
	and depicted on attached Form I	CT.	SES	SHOW TO WHOM AND			
-	Construction and Reclamation Pl	STE	N.	DATE DELIVERED		¢	ied mail or delivered
	by hand to the person(s) named before the day of mailing or de	MA	SEF	SHOW TO WHOM, DATE,			(cances) on or
		ST	AL	AND ADDRESS OF		60°	UM 1 1002
	6) EXTRACTION RIGHTS	CONSULT POSTMASTER FOR	O	RESTRICTED DELIVERY W SHOW TO WHOM AND DATE DELIVERED SHOW TO WHOM DATE, AND ADDRESS OF DELIVERY SHOW TO WHOM AND DA DELIVERED WITH RESTRI DELIVERY DELIVERY	TE	-	JUN 24 1983
	Check and provide one of the Included is the lease or	UL D	7PT	C DELIVERED WITH RESTRI	ICTED	¢	racts by which
	I hold the right to ex	NS	٥	SHOW TO WHOM DATE A	AND		for specifies \ OIL & GAS DIVISION
	☐ The requirement of Code 2	0		ADDRESS OF DELIVERY V		¢	: LOI Specifics./
	7) ROYALTY PROVISIONS	TOT		POSTAGE AND FEES	~~	\$1.72	DEPT. OF MINE
	Is the right to extract, pro			1		\$! ·	lease or leases
	or other contract or contrac of for compensation to the owner in	POS	IM.	ARK OR DAFE	la		imilar provision herently related
	to the volume of oil or gas &			10/800	77		No
	If the anguar above 6			10/00/05	1		answer is Yes,
	If the answer above of you may use Affidavit Form			1 / 3	m		diswel 15 les,
	- Land Control of the				7		**************************************
	See the reverse side f			VW			ons concerning
	tne required copies of Reclamation Plan.	·	· ·		5-7-4-7-N	WORLD BANK HAVE TO COMP THE WORLD BANK	ruction and
mi				WELL			
	truth of the information on the						
	ice and Application is verified			OPER	ATC	NR_Kais	er Exploration and Mining Co.
	sworn to and the Notice is					17	\wedge \mathcal{D}
	ned on behalf of the Well Operator	:		By		K	. 4.17
in I	my County and State by			It	-	Gene	ral Manager
	R. A. Pryce		_'	Ad	dre	ess p n	. Box 8
		8	2.			Rave	nswood, WV 26164
1	My commission expires 12-01 , 19	8	5.	Te	ler	phone 30	4-273-5371
	mith ann Halber	t					
							00/00/000

Notary Public, Jackson County,

State of West Virginia

INSTRU

No: 147828

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and numb
- 3) To be filled out by the
- 4) & 5) Use separate sheet if n
 - 4) Surface owner(s) of rec see also Code § 22-4-1h co-owners of interest d in such lands".
 - 5(i) "Coal Operator" means a corporation that proper
- 5(ii, iii) See Code § 22-4-20.
 - 6) See Code § 22-4-11(c). tinuing contract(s), t provided below.
 - 7) See Code § § 22-4-11(

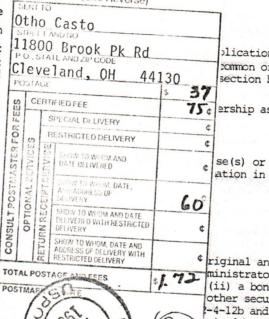
CONCERNING THE REQUIRED COPIES

Filing. Code § 22-4-lk ar copies of the Notice and F panied by (i) a plat in the forms prescribed by Recode § 22-4-lk(d) and 123, (iv) unless previously and 22-3-12a, and (v) if commer of any water well of

Service. In addition, se with an interest in the call

RECEIPT FOR CERTIFIED MAIL

NO INCURANCE COVERACE PROVIDED— NOT FOR INTERNATIONAL MAIL (See Reverse)



plication. However, common or other section hold interests

ership association or

se(s) or other conation in the space

riginal and required
ministrator, accom(ii) a bond in one of
other security allowed
-4-12b and Regulation
nuired by Code § 22-4-la(c)
code § 22-4-8a from the
possed well.

ner(s) and the person(s) 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11 (d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that—

- the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.

Grantee, lessee, etc.

Royalty

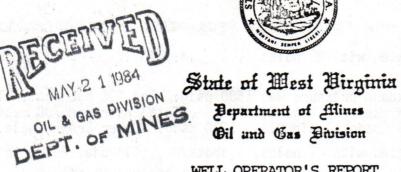
Book Page

Kaiser Exploration and
Mining Company

Otho Casto et al 1/8 of prevailing 181/79 field price

IV-35 (Rev 8-81)

WELL TYPE:





Bil und Gas Division

Date	May	4,	1984			_
Opera	tor's					1
Well	No	KI	EM-41	2		_
Farm_	Otho	Cas	sto			_
API N	0.47	_	035	_	1882	

/ Shallow χ /)

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Oil / Gas X / Liquid Injection / Waste Disposal (If "Gas," Production X / Underground Storage / Deep

DESIGNATED AGENT Same ADDRESS Same SURFACE OWNER Otho Casto ADDRESS 11800 Brook Pk Rd., Cleveland, OH 44130 ADDRESS Same ADDRESS Same OIL AND GAS INSPECTOR FOR THIS WORK Jerry Tephabock ADDRESS Ripley, WV 25271 TEPHADOR AGENCED April 16, 1984 DRILLING COMPLETED April 23, 1984 DRILLING COMPLETED April 23, 1984 DRILLING COMPLETED April 23, 1984 IF APPLICABLE: PUGGING OF DRY HOLE ON CONTINUOUS PROCRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED CON GEOLOGICAL TARGET FORMATION Devonian Brown Shale Depth 4091' (KB) fee Record with a strata depth: Fresh N/A feet; Salt N/A feet Coal seam depths: N/A Set; Salt N/A feet Coal seam depths: N/A feet; Salt N/A feet Coal seam depths: N/A Feet; Salt N/A feet Time of open flow 0 Ncf/d Oil: Initial open flow 0 Bbl Time of open flow between initial and final tests 4 hours Static rock pressure 800 (est) psig (surface measurement) after - hours shut (If applicable due to multiple completion) Second producing formation Berea Pay zone depth 2509' (KB) fee Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl Time of open flow between initial and final tests 4 hours Second producing formation Berea Pay zone depth 2509' (KB) fee Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl Time of open flow between initial and final tests 4 hours	DDRESS P. O. Box 8, Ravenswood, WV 26164 DESIGNATED AGENT Same DDRESS Same DURFACE OWNER Otho Casto DDRESS 11800 Brook Pk Rd. Cleveland, OH 44130 DDRESS Same DDRESS Sam					
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(If applicable due to multiple completion) Second producing formation Berea Pay zone depth 2509' (KB) fee Gas: Initial open flow 50 Mcf/d Oil: Initial open flow 0 Bbl Final open flow *220 comin Mcf/d Oil: Final open flow 0 Bbl	Second producing formation Berea Pay zone depth 2509' (KB) feets: Initial open flow 50 Mcf/d Oil: Initial open flow 0 Bbl. Final open flow *220 comin Mcf/d Oil: Final open flow 0 Bbl. Time of open flow between initial and final tests 4 hours Static rock pressure 800 psig(surface measurement) after - hours shut:	Time of open flow between init.	ial and fi	nal tests	4 hc	ours
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Gas: Initial open flow 50 Mcf/d Oil: Initial open flow 0 Bbl Final open flow *220 comin Mcf/d Oil: Final open flow 0 Bbl	Gas: Initial open flow 50 Mcf/d Oil: Initial open flow 0 Bbl. Final open flow *220 comin Mcf/d Oil: Final open flow 0 Bbl. Time of open flow between initial and final tests 4 hours Static rock pressure 800 psig(surface measurement) after - hours shut:	(If applicable due to multiple completion)		09/	08/2023
Final open flow *220 comin Mof/d Oil: Final open flow 0 Bbl	Final open flow *220 comin Most/d Oil: Final open flow 0 Bbl. Time of open flow between initial and final tests 4 hours Static rock pressure 800 psig(surface measurement) after - hours shut:	Second producing formation Berea	Pay	zone dep	th 2509	(KB) feet
	Time of open flow between initial and final tests 4 hours Static rock pressure 800 psig(surface measurement) after - hours shut:	Gas: Initial open flow 50 Mcf/d	Oil: Ini	tial open	flow	Bb1/c
Time of open flow between initial and final tests 4 hours	Static rock pressure 800 psig(surface measurement) after - hours shut :	Final open flow *220 comin Most/d	Oil: Fin	al open f	low	Bbl/d
		Time of open flow between init	ial and fi	nal tests	4 hc	ours
	IIUI (IUCII I IUW	Static rock pressure 800 psig(surface	measureme	ent) after	- hou	rs shut

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

4/30/84: Young's Wireline perforated with 20 holes (.41" dia.) 4091' 50.4364'. Lower Brown Shale.

Nowsco foam frac. Breakdown pressure was 1500 psig. Pad 200 BBL foam. Treating pressure was 2500 psig. Used 20/40 sand, 60,000#, Total nitrogen 700 mscf, total fluid was 320 bbls, ISIP: 1340 psig; 5 min SIP: 1200 psig. Lower Brown Shale.

5/1/84 Young's Wireline perforated with 24 holes, 3 shots/ft, .41" dia, 2509' to 2517'. Berea.

Nowsco foam frac of Berea. Breakdown fluid 500 gal 15% Hcl at 2500 psig. Pad: 200 bbl foam. Treated at 75% quality at 1700 psig. Used 60,000# 20/40 sand. Total nitrogen was 656 mscf; total fluid was 325 bbls; ISIP: 1300 psig; 5 min SIP: 1200 psig. Flow back was through 1/2".

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	
Soil and Shale Sand Shale Sand Shale Sand Shale and Siltstone Sand Shale and Siltstone Sand Shale and Siltstone Sand Shale Salt Sands Big Lime (Greenbrier) Shale Big Injun Sand Shale Coffe Shale (Sunbury) Berea Sand Shale Brown Shale Shale Total Depth	0 270 330 357 412 424 445 1220 1336 1470 1515 1766 1994 2040 2050 2132 2499 2516 2525 3770 4370 4396	270 330 357 412 424 445 1220 1336 1470 1515 1766 1994 2040 2050 2132 2499 2516 2525 3770 4370 4396	S/G S/g @4150
	STATE OF THE STATE		

	of Frys		

(Attach separate sheets as necessary)

09/08/2023

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including that, encountered in the drilling of a well."

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

DEPT. OF MINES

Oil or Gas Well

Permit No. 035 1882

				(KII	ND)	
Company Kaiser Explorati	.on	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACK	ERS
Address		Size				
Farm Otis Casto	produced and second	16			Kind of Pacl	cer
Well No. Kem 412		13			Size of	
DistrictCou	Jackson	81/4			Size of	
Drilling commenced 4 16 84		65/8			Depth set	
Drilling completed 4 22 84To	tal depth 4394	5 3/16		er o o e e wa	Perf. top	
Date shotDepth	of shot	2			Perf. bottom	
Initial open flow/10th	ns Water inInch	Liners Used			Perf. top	
Open flow after tubing/10th	s Merc. inInch				Perf. bottom	
Volume	Cu. Ft.	CASING CEME	NTED	SIZE	No. FT	Date
Rock pressure lbs.	hrs.	NAME OF SER	VICE COMPA	NY		
Dil	bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	_FEET	_INCHES
Fresh waterfeet		FEET_	INCH	ES	FEET	_INCHES
Salt water feet	feet	FEET	INCH	IES	FEET	_INCHES
Drillers' Names Hurt Rig #4	Junior Arche	r				
Remarks:				resident with the continues and the or recovering the second		

- 4 16 84 Spud Date. Ran 399' set 409' 103/4" csg 9jts cement with 250 sacs noscoe class a 3% cacl 1/4 fflocele.
- 4 20 84 Ran 2247' set 2257' 7" csg cement 150 sacs 50/50 poz 10% salt 1/41b flocele plus 100 sacs class a 3% cacl plug down 4:00PM
 4 22 84 TD 4394 Ran 4380 set 4390 feet off 41/2" 109jts cement 200 sacs 50/50poz
- 10% salt 121/2 lbs per sac Gibsonite plug down 5:30 PM.
- 4 23 84 Waiting on creek to go down to move.

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

ermit No. 18 18 18 18 18	110			We	II No	
T. OF MINES			ADDRESS		î	
AKM		DISTRIC	The state of the s	COUNTY		
lling Material Used		2122				
			,			
ner Loc	ation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
						
						-
	•					
	/ .211					
5 y 1 y 2 y 2 y 2 y 2 y 2 y 2 y 2 y 2 y 2			s the foreign section of the			n engeletik kanglar ezer- ¹ ma peca nagan
lers' Names					an season de seguina con en antenior de servicio de servicio de servicio de servicio de servicio de servicio d	
narks:						
DAYE	hereby certify I v	isited the abo	ve well on this date.			





OIL & GAS DIVISION

DEPT. of MINES

State of West Virginia

Bepartment of Mines Gil and Gas Bivision Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT May 31, 1984

	May 31,	1984	
COMPANY	Kaiser Exploration & Mining Co.	PERMIT NO	035-1882
P. 0	. Box 8	FARM & WELL NO	Otho Casto, KEM-41
Rave	nswood, West Virginia 26164	DIST. & COUNTY	Washington/Jackson
		IN	COMPLIANCE
RULE	DESCRIPTION	YES	NO
23.06 25.04 25.03 16.01 15.03 15.02 15.01 15.04 15.05 23.02 25.01 23.04 23.05 23.07 16.01 16.02 7.05	Notification Prior to Starting Work Prepared before Drilling to Prevent High-Pressure Drilling Required Permits at Wellsite Adequate Fresh Water Casing Adequate Coal Casing Adequate Production Casing Adequate Cement Strenght Cement Type ' Maintained Access Roads Necessary Equipment to Prevent Wast Reclaimed Drilling Pits No Surface or Underground Pollution Requirements for Production & Gathe Well Records on Site Well Records Filed Identification Markings	Waste	
I HAVE 1	INSPECTED THE ABOVE CAPTIONED WELL AND	D RECOMMEND THAT IT	BE RELEASED:
		DATE 12	20 ryl - Ci
with Cha	Il record was received and reclamation apter 22, Article 4, Section 2, the ale for the life of the well.	n requirements approve well will rema	oved. In accordance in under bond
		Administrator-0	il & Gas Division
		January	23, 1985
		DATE	

